(19) 世界知的所有権機関 国際事務局



(43) 国際公開日 2004 年8 月12 日 (12.08.2004)

PCT

(10) 国際公開番号 WO 2004/067474 A1

(51) 国際特許分類7:

C04B 35/50, 35/44

(21) 国際出願番号:

PCT/JP2003/000750

(22) 国際出願日:

2003年1月27日(27.01.2003)

(25) 国際出願の言語:

日本語

(26) 国際公開の言語:

日本語

- (71) 出願人 (米国を除く全ての指定国について): 神島 化学工業株式会社 (KONOSHIMA CHEMICAL CO., LTD.) [JP/JP]; 〒541-0043 大阪府 大阪市 中央区高麗 橋 4 丁目 2 番 7 号 Osaka (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 柳谷 高公 (YANAGITANI,Takagimi) |JP/JP); 〒769-1101 香川県 三豊郡詫間町詫間3500-2 Kagawa (JP). 八木秀

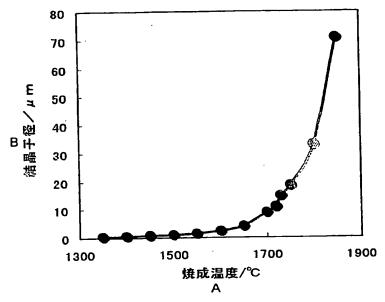
喜 (YAGI,Hideki) [JP/JP]; 〒769-1501 香川県 三豊郡 豊中町大字比地大 8 7 0-1-2 0 6 Kagawa (JP).

- (74) 代理人: 塩入 明,外(SHIOIRI,Akira et al.); 〒659-0093 兵庫県 芦屋市 船戸町 4番 1-4 0 9号室 Hyogo (JP).
- (81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) 指定国(広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB,

[続葉有]

(54) Title: RARE EARTH GARNET SINTERED COMPACT

(54) 発明の名称: 希土類ガーネット焼結体とその製造方法



A...FIRING TEMPERATURE/°C B...CRYSTALLITE/µm

(57) Abstract: A rare earth garnet sintered compact which is produced by subjecting a rare earth garnet powder such as YAG to a pre-sintering, sintering the pre-sintered product by HIP, and annealing the sintered product at 1100 °C to 1600°C in a whole oxygen atmosphere under a whole pressure of 4.5 MPa or more, and has an average crystallite diameter of 0.9 to 9 μ m, an optical loss coefficient of 0.002 cm⁻¹ or less and a strain of a transmitted wave of 0.05 λ cm⁻¹ or less.

04/067474 41

O 2004/067474 A

GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI 添付公開書類: 特許 (BF, BJ, CF, CG, Cl, CM, GA, GN, GQ, GW, ML, 一 国際調査報告書 MR, NE, SN, TD, TG).

規則4.17に規定する申立て:

USのみのための発明者である旨の申立て (規則 4.17(iv))

2文字コード及び他の略語については、定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

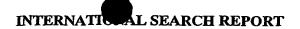


- DCT/IC & M10 (second shoot) (Iulii 1000)

International application No.

PCT/JP03/00750

	A. CLASSIFICATION OF SUBJECT MATTER					
Int.Cl ⁷ C04B35/50, 35/44						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C04B35/50, 35/44						
	01.200,00, 00,11					
<u> </u>				· · · · · · · · · · · · · · · · · · ·		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926–1996 Toroku Jitsuyo Shinan Koho 1994–2003						
Jitsuyo Shinan Koho 1926—1996 Toroku Jitsuyo Shinan Koho 1994—2003 Kokai Jitsuyo Shinan Koho 1971—2003 Jitsuyo Shinan Toroku Koho 1996—2003						
Electronic o	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
	•					
C DOCU	ACTION CONTINUED TO BE DELEVAND					
C. DOCO	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	ppropriate, of the relevan	nt passages	Relevant to claim No.		
A	JP 2001-158660 A (Kamishima	Kagaku Kogyo	Kabushiki	1-4		
	Kaisha),					
	12 June, 2001 (12.06.01),					
	Claims; Par. No. [0015] (Family: none)					
	(ramily. none)					
A	US 5075267 A (Sumitomo Elect	ric Industrie	s, Ltd.),	1-4		
	24 December, 1991 (24.12.91)	7				
	Claims; column 2, line 63 to	column 3, lin	ne 14			
	& JP 2-229764 A Claims; page 2, lower right (17 -			
	page 3, upper left column, li		17 60			
	& EP 385510 A1					
	•					
× Further	er documents are listed in the continuation of Box C.	See patent fami	ly annex.			
* Special categories of cited documents: "T" later document published after the international filing date or				mational filing date or		
"A" document defining the general state of the art which is not priority date and not in conflict with the application but cited to considered to be of particular relevance understand the principle or theory underlying the invention						
"E" earlier document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot				claimed invention cannot be		
date "L" docume	ent which may throw doubts on priority claim(s) or which is		or cannot be conside ument is taken alone	red to involve an inventive		
cited to	establish the publication date of another citation or other reason (as specified)	"Y" document of partic	cular relevance; the o	claimed invention cannot be		
"O" docume	ent referring to an oral disclosure, use, exhibition or other		oive an inventive step e or more other such	when the document is documents, such		
means combination being obvious to a p "P" document published prior to the international filing date but later "&" document member of the same pa						
than the	e priority date claimed		•	•		
	Date of the actual completion of the international search Date of mailing of the international search report					
Y 17 A	pril, 2003 (17.04.03)	30 April,	2003 (30.	04.03)		
Name and mailing address of the ISA/ Authorize						
Japa	nese Patent Office					
Facsimile No		Telephone No.				



Form PCT/ISA/210 (continuation of second sheet) (July 1998)

International application No.
PCT/JP03/00750

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Dolouset to state 32
A	JP 2001-89225 A (Sumitomo Electric Industries,	Relevant to claim No
	Ltd.), 03 April, 2001 (03.04.01), Par. Nos. [0026], [0029], [0030] (Family: none)	1-4
A .	JP 11-130428 A (Director General of National Institute for Research in Inorganic Materials of Science and Technology Agency), 18 May, 1999 (18.05.99), Par. No. [0026] (Family: none)	1-4
A	JP 2001-158620 A (Shin-Etsu Chemical Co., Ltd.), 12 June, 2001 (12.06.01), Par. No. [0010] (Family: none)	1-4
	·	
	·	
,		
	·	